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09/755,084	01/08/2001	James H. Waldo	06502.0110-01	6895

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SUN MICROSYSTEMS/FINNEGAN, HENDERSON LLP
901 NEW YORK AVENUE, NW
WASHINGTON, DC 20001-4413

EXAMINER

• AILES, BENJAMIN A

ART UNIT	PAPER NUMBER
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2142

MAIL DATE	DELIVERY MODE
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11/20/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

09/755,084

Applicant(s)

WALDO ET AL.

Examiner

Benjamin A. Ailes

Art Unit

2142

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 September 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 8-24 and 26-39 is/are pending in the application.
- 4a) Of the above claim(s) 12,21,23,24 and 30-39 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 8-11,22 and 26-29 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>9/19/2007</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is in response to correspondence filed 04 September 2007.
2. Claims 8-24 and 26-39 remain pending. Claims 12-21, 23-24 and 30-39 have been withdrawn from consideration. Claims 8-11, 22 and 26-29 have been examined.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 8-11, 22 and 26-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bunnell (US 6,119,122) in view of Sumsion et al. (US 6,496,865 B1), hereinafter referred to as Sumsion.

5. Regarding claim 8, Bunnell teaches a method in a data processing system having a lookup service with associated services available for use in the data processing system, comprising the steps of:

maintaining a lookup service (col. 2, ll. 51-65, user can modify attributes);
receiving a request to update the lookup service (Figure 3, item 51, 52 and col. 8, ll. 20-25, user selects an object in directory to update);
updating the lookup service such that the associated services unaffected by the update continue to be available for use while the update occurs (figure 3, item 52,

col. 8, ll. 20-26, user selects and modifies a target object independently from the directory).

Bunnell teaches the implementation of a management service that can be maintained by individual users and the management service including a flat collection objects that have associated attributes having associated values (col. 1, ll. 31-47) but does not explicitly recite the management service including a service item containing at least a stub or a serialized object for use in accessing at least one of the services. However, in related art, Sumsion teaches a system and method for implementing a resource access system utilizing a stub for performing functions related to servicing a client to be given access to a server resource (col. 9, ll. 16-32). One of ordinary skill in the art at the time of the applicant's invention would have found it obvious to utilize in combination with the management service provided by Bunnell functioning as a network lookup service a method for servicing a client by performing resource access utilizing a stub. One of ordinary skill in the art would have been motivated to make such a combination for the reasons stated above and further to advance the ability for client to access server resources in a faster and more cost efficient manner (Sumsion, col. 3, ll. 58-64).

6. Regarding claim 9, Bunnell and Sumsion teach the updating step including associating a new service with the lookup service (Bunnell, col. 14, ll. 24-28, create new object.).

7. Regarding claim 10, Bunnell and Sumsion teach the method wherein the updating step includes disassociating one of the associated services from the lookup

service so that the one service is no longer available to use (Bunnell, col. 14, ll. 24-28, delete object).

8. Regarding claim 11, Bunnell and Sumsion teach the method wherein the associated service have attributes and wherein the updating step includes the step of modifying the attributes of one of the associated services (Bunnell, col. 14, ll. 24-28, change object properties).

9. Regarding claim 22, Bunnell teaches a data processing system comprising:
maintaining a lookup service (col. 2, ll. 51-65, user can modify attributes);
receiving a request to update the lookup service (Figure 3, item 51, 52 and col. 8, ll. 20-25, user selects an object in directory to update);
updating the lookup service such that the associated services unaffected by the update continue to be available for use while the update occurs (figure 3, itme 52, col. 8, ll. 20-26, user selects and modifies a target object independently from the directory).

Bunnell teaches the implementation of a management service that can be maintained by individual users and the management service including a flat collection objects that have associated attributes having associated values (col. 1, ll. 31-47) but does not explicitly recite the management service including a service item containing at least a stub or a serialized object for use in accessing at least one of the services. However, in related art, Sumsion teaches a system and method for implementing a resource access system utilizing a stub for performing functions related to servicing a client to be given access to a server resource (col. 9, ll. 16-32). One of ordinary skill in

the art at the time of the applicant's invention would have found it obvious to utilize in combination with the management service provided by Bunnell functioning as a network lookup service a method for servicing a client by performing resource access utilizing a stub. One of ordinary skill in the art would have been motivated to make such a combination for the reasons stated above and further to advance the ability for client to access server resources in a faster and more cost efficient manner (Sumsion, col. 3, ll. 58-64).

10. Regarding claim 26, Bunnell teaches a computer-readable medium containing instructions for controlling a data processing system to perform a method, the data processing system having a lookup service with associated services available for use in the data processing system, the method comprising the steps of:

- maintaining a lookup service (col. 2, ll. 51-65, user can modify attributes);
- receiving a request to update the lookup service (Figure 3, item 51, 52 and col. 8, ll. 20-25, user selects an object in directory to update);
- updating the lookup service such that the associated services unaffected by the update continue to be available for use while the update occurs (figure 3, item 52, col. 8, ll. 20-26, user selects and modifies a target object independently from the directory).

Bunnell teaches the implementation of a management service that can be maintained by individual users and the management service including a flat collection objects that have associated attributes having associated values (col. 1, ll. 31-47) but does not explicitly recite the management service including a service item containing at

least a stub or a serialized object for use in accessing at least one of the services.

However, in related art, Sumsion teaches a system and method for implementing a resource access system utilizing a stub for performing functions related to servicing a client to be given access to a server resource (col. 9, ll. 16-32). One of ordinary skill in the art at the time of the applicant's invention would have found it obvious to utilize in combination with the management service provided by Bunnell functioning as a network lookup service a method for servicing a client by performing resource access utilizing a stub. One of ordinary skill in the art would have been motivated to make such a combination for the reasons stated above and further to advance the ability for client to access server resources in a faster and more cost efficient manner (Sumsion, col. 3, ll. 58-64).

11. Regarding claim 27, Bunnell and Sumsion teach the computer-readable medium wherein the updating step includes the step of:

associating a new service with the lookup service (Bunnell, col. 14, ll. 24-28, create new object.).

12. Regarding claim 28, Bunnell and Sumsion teach the computer-readable medium wherein the updating step includes the step of:

disassociating one of the associated services from the lookup service so that the one service is no longer available for use (Bunnell, col. 14, ll. 24-28, delete object).

13. Regarding claim 29, Bunnell and Sumsion teach the computer-readable medium wherein the associated services have attributes and wherein the updating step includes the step of:

modifying the attributes of one of the associated services (Bunnell, col. 14, ll. 24-28, change object properties).

Response to Arguments

14. Applicant's arguments filed 04 September 2007 have been fully considered but they are not persuasive. Applicant argues with respect to independent claims 8, 22 and 26 that the cited prior art does not teach the newly added limitation that recites: "the lookup service compris[es] a flat collection of service items." The applicant states that the distributed directory of Bunnell contains a hierarchy of object rather than a flat collection of service items. The examiner respectfully disagrees with the applicant's position because the rejection of independent claims 8, 22 and 26 as amended are supported by the combination of Bunnell and Sumsion. Bunnell teaches in a specific embodiment in column 6, lines 28-44 and figure 2 that objects within a distributed directory database are often organized in a hierarchical structure. It is recognized by the examiner that database directories are often organized in this manner as taught by Bunnell but this does not mean they are always organized in this manner. Bunnell teaches in a separate embodiment on column 1, lines 34-41, a similar structure of a management service wherein objects are organized in a flat manner. This separate example presented by Bunnell is considered within the scope of what is defined by the independent claims which require a flat collection of service items and therefore the pending claims are not found patentable over the prior art of record.

Conclusion

15. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin A. Ailes whose telephone number is (571)272-3899. The examiner can normally be reached on M-F 6:30-4, IFP Work Schedule.

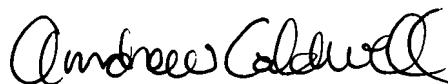
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Caldwell can be reached on (571)272-3868. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

baa



ANDREW CALDWELL
SUPERVISORY PATENT EXAMINER